

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A sintered body of gastight polycrystalline aluminum oxide containing magnesium in oxidic form and a second metal M in oxidic form, ~~characterized in that wherein~~ the second metal M is selected from erbium, ~~holmium, dysprosium~~ holmium and thulium, and the aluminum oxide further comprises zirconium in oxidic form, the magnesium being calculated as MgO and being present in a quantity by weight of 50 to 1000 ppm, the second metal being calculated as M_2O_3 and being present in a quantity by weight of 10 to 100 ppm, and zirconium being calculated as ZrO_2 and being present in a quantity by weight of 50 to 600 ppm.

2. (Currently Amended) ~~A The~~ sintered body as claimed in claim 1, ~~characterized in that magnesium calculated as~~ wherein the MgO is

present in a quantity by weight of 50 to 500 ppm, the ~~second metal~~ calculated as M_2O_3 is present in a quantity by weight of 20 to 50 ppm, and zirconium calculated as the ZrO_2 is present in a quantity by weight of 200 to 500 ppm.

3. (Currently Amended) A sintered body ~~as claimed in claim 2,~~ characterized in that ~~magnesium calculated as MgO is present in a quantity by weight of 50 to 500 ppm, the second metal calculated as M_2O_3 is present in a quantity by weight of 30 to 50 ppm and zirconium calculated as ZrO_2 is present in a quantity by weight of 200 to 400 ppm~~ of gastight polycrystalline aluminum oxide containing magnesium in oxidic form and a second metal M in oxidic form, wherein the second metal M is selected from erbium, holmium and thulium, and the aluminum oxide further comprises zirconium in oxidic form, the magnesium being calculated as MgO and being present in a quantity by weight of 50 to 500 ppm, the second metal being calculated as M_2O_3 and being present in a quantity by weight of 30 to 50 ppm, and zirconium being calculated as ZrO_2 and being present in a quantity by weight of 200 to 400 ppm.

4. (Currently Amended) An electric lamp comprising a lamp vessel of gastight polycrystalline aluminum oxide containing magnesium in oxidic form and a second metal M in oxidic form, ~~characterized in that the lamp vessel comprises a sintered body as claimed in claim 1~~ wherein the second metal M is selected from erbium, holmium and thulium, and the aluminum oxide further comprises zirconium in oxidic form, the magnesium being calculated as MgO and being present in a quantity by weight of 50 to 1000 ppm, the second metal being calculated as M_2O_3 and being present in a quantity by weight of 10 to 100 ppm, and zirconium being calculated as ZrO_2 and being present in a quantity by weight of 50 to 600 ppm.

5. (Currently Amended) ~~An~~ The electric lamp as claimed in claim 4, ~~characterized in that the lamp vessel comprises a sintered body as claimed in claim 2~~ wherein the MgO is present in a quantity by weight of 50 to 500 ppm, the M_2O_3 is present in a quantity by weight of 20 to 50 ppm, and the ZrO_2 is present in a quantity by weight of 200 to 500 ppm.

6. (Currently Amended) ~~An~~ The electric lamp as claimed in

~~claim 5, characterized in that the lamp vessel comprises a sintered~~
~~body as claimed in claim 3~~ claim 4, wherein the MgO is present in a
quantity by weight of 50 to 500 ppm, the M_2O_3 is present in a
quantity by weight of 30 to 50 ppm and the ZrO_2 is present in a
quantity by weight of 200 to 400 ppm.